DRIVER, VEHICLE AND TRAFFIC

ACCIDENT STATISTICS REPORT

1989

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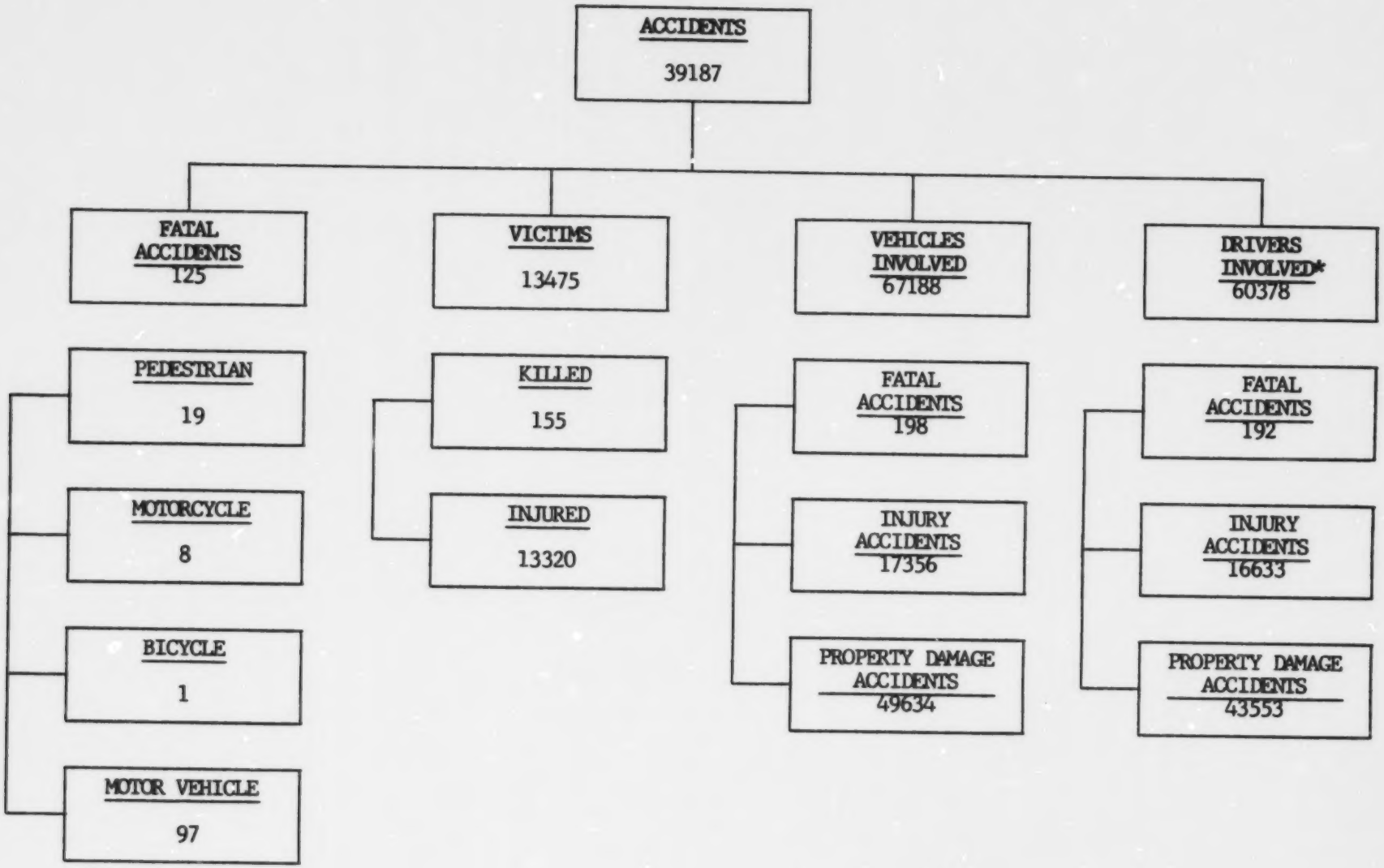
1989 TRAFFIC ACCIDENT CAPSULE SUMMARY



Drivers involved excludes the following vehicle type categories: bicycle, farm equipment, construction equipment, snowmobiles, trains, off-road vehicles, parked vehicles and pedestrians.

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SECTION 1

LICENCED DRIVERS

1989

MANITOBA DRIVERS
ACTIVE AND SUSPENDED *
BY AGE AND SEX
1989

DRIVER AGE	SEX	ACTIVE	SUSPENDED
16 - 17	M	11079	404
	F	9920	88
	TOTAL	**20999**	**492**
18 - 19	M	12283	652
	F	11366	67
	TOTAL	**23649**	**719**
20 - 24	M	31154	2973
	F	29922	290
	TOTAL	**61076**	**3263**
25 - 34	M	80699	6731
	F	76490	825
	TOTAL	**157189**	**7556**
35 - 44	M	70810	3526
	F	66031	556
	TOTAL	**136841**	**4082**
45 - 54	M	47456	1961
	F	40681	289
	TOTAL	**88137**	**2250**
55 - 64	M	40311	1365
	F	30982	219
	TOTAL	**71293**	**1584**
65 - 74	M	30542	1133
	F	22302	297
	TOTAL	**52844**	**1430**
75 - 84	M	13445	1228
	F	6924	454
	TOTAL	**20369**	**1682**
> 84	M	1395	1075
	F	406	212
	TOTAL	**1801**	**1287**
ALL AGES	M	339174	21048
	F	295024	3297
	TOTAL	**634198**	**24345**

* Active refers to a driver who holds a valid licence.
Suspended refers to a driver whose licence is inactive.

MANITOBA DRIVERS
ACTIVE AND SUSPENDED
1980 TO 1989

LICENCING YEAR	ACTIVE DRIVERS	SUSPENDED DRIVERS
1980	564657	18900
1981	572095	19864
1982	579813	21087
1983	595952	25564
1984	594100	24139
1985	606798	23338
1986	623406	22069
1987	629298	24524
1988	633339	25556
1989	634198	24345

ANALYSIS OF ACTIVE AND SUSPENDED MANITOBA DRIVERS BY LICENCE CLASS 1989

LICENCE CLASS	ACTIVE DRIVERS MALE	FEMALE	TOTAL	% IN EACH CLASS	SUSPENDED DRIVERS MALE	FEMALE	TOTAL	% IN EACH CLASS
1.0	15309	400	15709	2.5	612	4	616	2.5
1.6*	5274	56	5330	0.8	98	0	98	0.4
2.0	4264	1150	5414	0.9	66	3	69	0.3
2.6*	989	60	1049	0.2	8	0	8	...
3.0	8696	335	9031	1.4	323	3	326	1.3
3.6*	2316	24	2340	0.4	43	0	43	0.2
4.0	8198	2053	10251	1.6	486	37	523	2.2
4.6*	2323	116	2439	0.4	63	1	64	0.3
5.0	257876	280070	537946	84.8	17214	2910	20124	82.7
5.6*	29646	3531	33177	5.2	1218	20	1238	5.1
6.0	38	10	48	...	13	0	13	...
7.0	4245	7219	11464	1.8	904	319	1223	5.0
TOTAL	**339174**	**295024**	**634198**	**100.0**	**21048**	**3297**	**24345**	**100.0**

* .6 refers to a motorcycle licence held in conjunction with another class of licence.

SECTION 2

VEHICLE REGISTRATIONS

1989

VEHICLES REGISTERED
UNDER THE HIGHWAY TRAFFIC ACT
1989

VEHICLE CLASS	CLASS TOTAL	% IN EACH CATEGORY
PASSENGER	536649	64.8
DELIVERY CAR	467	0.1
ANTIQUE	30	...
MOTORCYCLE & MOPED	12282	1.5
TRUCK	126751	15.3
FARM TRUCK	64911	7.8
SNOW VEHICLE (H.T.A.)	136	...
TRAILER	87247	10.5
TRACTOR	191	...
TOTAL VEHICLES REGISTERED	**828664**	**100.0**
CANCELLATIONS	100804	
FINAL TOTAL*	727860	

VEHICLES REGISTERED UNDER THE OFF-ROAD VEHICLES ACT

TOTAL VEHICLES REGISTERED	29410
CANCELLATIONS	1714
FINAL TOTAL	27696

* VEHICLES REGISTERED AT THE END OF THE REGISTRATION YEAR.

COMMERCIAL VEHICLES REGISTERED
UNDER THE HIGHWAY TRAFFIC ACT
1989

VEHICLE CLASS	CLASS TOTAL	% IN EACH CATEGORY
C.T. TRUCK	26096	45.2
P.S.V. TRUCK	4580	8.0
U-DRIVE CAR AND TRUCK	2438	4.2
DEALER AND REPAIRER	4712	8.2
LIVERY - CITY	488	0.9
LIVERY - COUNTRY	355	0.6
TAXI - CITY	66	0.1
P.S.V. BUS	154	0.3
C.T. TRAILER (INCLUDES SEMI-TRAILER) *	18695	32.4
P.S.V. TRAILER	26	0.1
TOTAL VEHICLES REGISTERED	**57610**	**100.0**
CANCELLATIONS	**4160**	
FINAL TOTAL**	**53450**	

* COMMERCIAL TRAILERS USED IN CONJUNCTION WITH COMMERCIAL TRUCKS.

** VEHICLES REGISTERED AT THE END OF THE REGISTRATION PERIOD.

SECTION 3

TEN YEAR SYNOPSIS

OF TRAFFIC ACCIDENTS

1989

SYNOPSIS

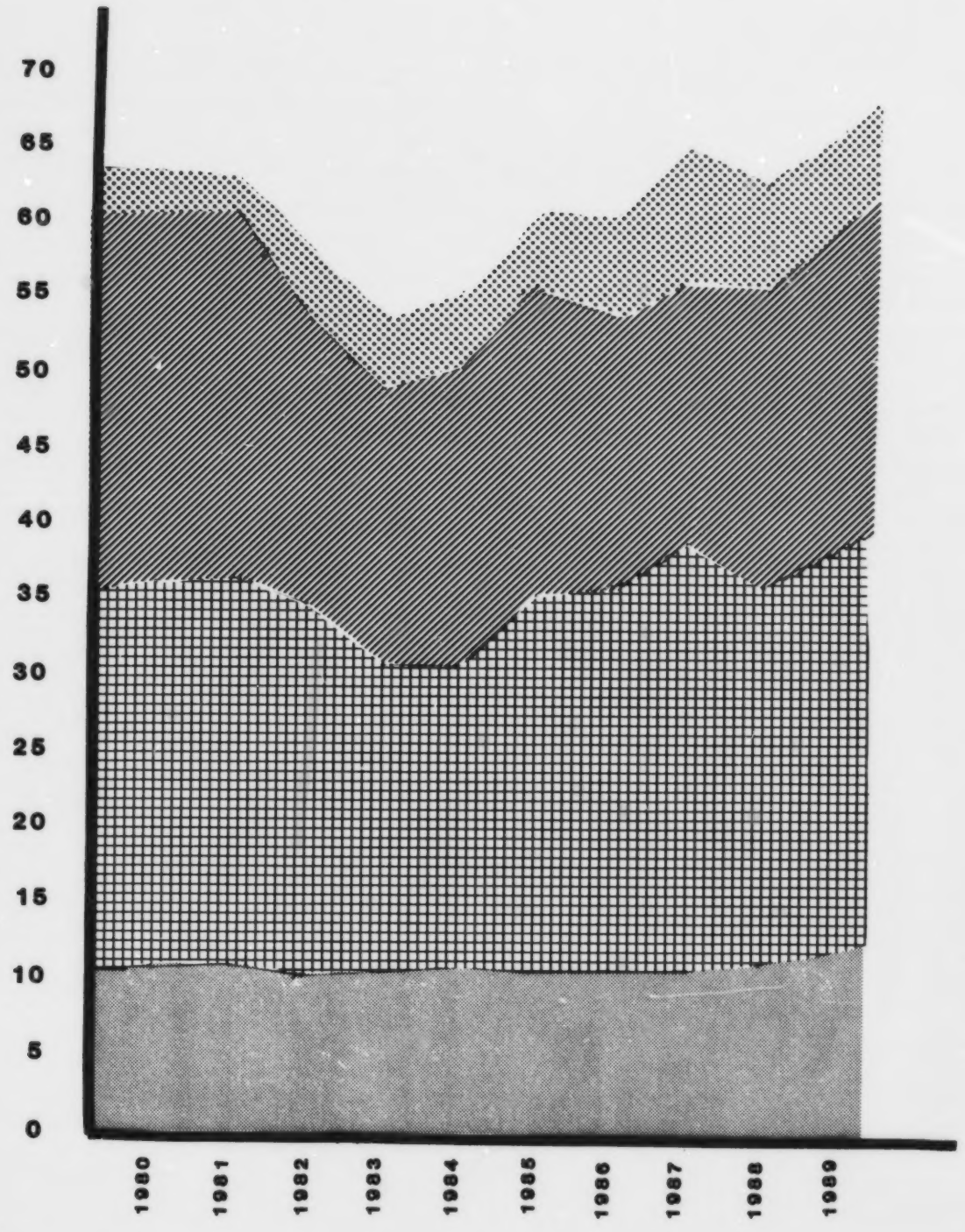
The early 1980's were characterized by a decrease in motor vehicle accidents, and a corresponding decrease in accident victims. This downward trend in accidents, common across Canada, was attributed in part to the recession and consequent reduced number of vehicle kilometres travelled during this time period throughout the country.

Traffic accidents in Manitoba began an upward swing again in 1985. In 1989, injury accidents increased by 10.8% from the year previous, and property damage accidents by 3.6 percent. There was, however, a 1.6% decrease in fatal accidents.

TRAFFIC ACCIDENTS
TEN YEAR SYNOPSIS
1980 - 1989

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
TOTAL ACCIDENTS	**36964**	**37572**	**35057**	**31877**	**32548**	**35861**	**36252**	**39365**	**37251**	**39187**
FATAL	156	168	132	126	112	109	142	138	127	125
INJURY	7787	7929	7535	7935	7961	7648	8078	8493	8530	9448
PROPERTY DAMAGE	29021	29475	27390	23816	24475	28104	28032	30734	28594	29614
TOTAL VICTIMS	**11115**	**11168**	**10460**	**10931**	**11791**	**10817**	**11508**	**12095**	**12135**	**13475**
KILLED	175	198	151	133	127	133	168	165	141	155
INJURED	10940	10970	10309	10798	11664	10684	11340	11930	11994	13320
TOTAL VEHICLES INVOLVED	**63512**	**63437**	**59061**	**54284**	**55786**	**61936**	**61290**	**65317**	**63166**	**67188**
FATAL	225	247	186	175	171	156	212	202	188	198
INJURY	13645	13910	13310	14085	14131	13823	14523	15242	15353	17356
PROPERTY DAMAGE	49642	49280	45565	40024	41484	47957	46555	49873	47625	49634
TOTAL DRIVERS INVOLVED	**61632**	**61770**	**53906**	**49139**	**50450**	**55909**	**54658**	**57572**	**56473**	**60378**
FATAL	224	242	181	169	163	145	196	186	176	192
INJURY	13298	13576	12773	13424	13366	13186	13866	14505	14654	16633
PROPERTY DAMAGE	48110	47952	40952	35546	36921	42578	40596	42881	41643	43553

GRAPHIC REPRESENTATION
TEN YEAR SYNOPSIS
1980-1989



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SECTION 4

TRAFFIC ACCIDENTS

1989

SYNOPSIS

* Total accidents increased by 5.2%, from 37251 in 1988 to 39187 in 1989. Fatal accidents decreased from 127 to 125, a variance of 1.6%, and property damage accidents increased 3.6%, from 28594 in 1988 to 29614 in 1989. An increase was experienced in injury accidents, which rose 10.8%, from 8530 in 1988 to 9448 in 1989.

* Three months - December, January and November (in descending order) accounted for 33.5% of total accidents occurring in 1989.

* 33.3% of total accidents occurred on either Friday or Saturday.

* 23.2% of total accidents occurred between the hours of 3 p.m. - 6 p.m.

* 34.4% of fatal accidents occurred between the hours of 3 p.m. - 8 p.m.

* In urban areas, motor vehicle to motor vehicle collisions were the primary accident type, accounting for 84.7% of total reportable accidents, while in rural areas, the primary accident type was ran off roadway, at 32.5 percent.

* 38.4% of total accidents occurred between intersections.

* 61.0% of total accidents, and 72.8% of fatal accidents occurred on undivided roadways.

* 51.7% of total accidents occurred on dry road surfaces, while 24.3% occurred under icy conditions.

* 93.1% of total accidents and 92.8% of fatal accidents occurred under good road conditions.

* 85.7% of total accidents occurred during good weather conditions, while snow and rainy conditions were reported for 8.9 percent.

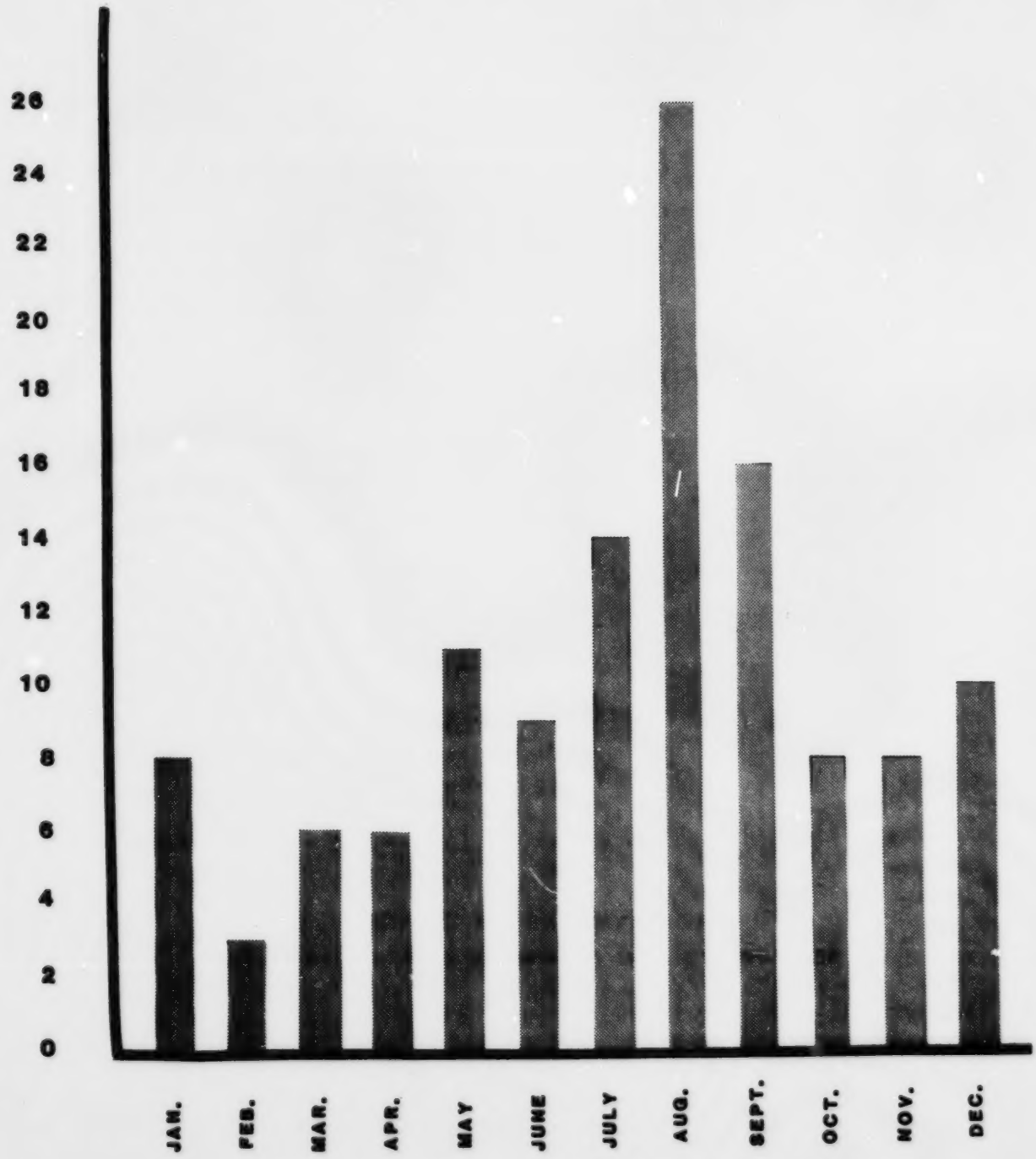
* 48.0% of fatal accidents occurred during daylight conditions.

* 80.0% of total accidents occurred in urban areas; however, urban areas accounted for only 27.2% of all fatal accidents.

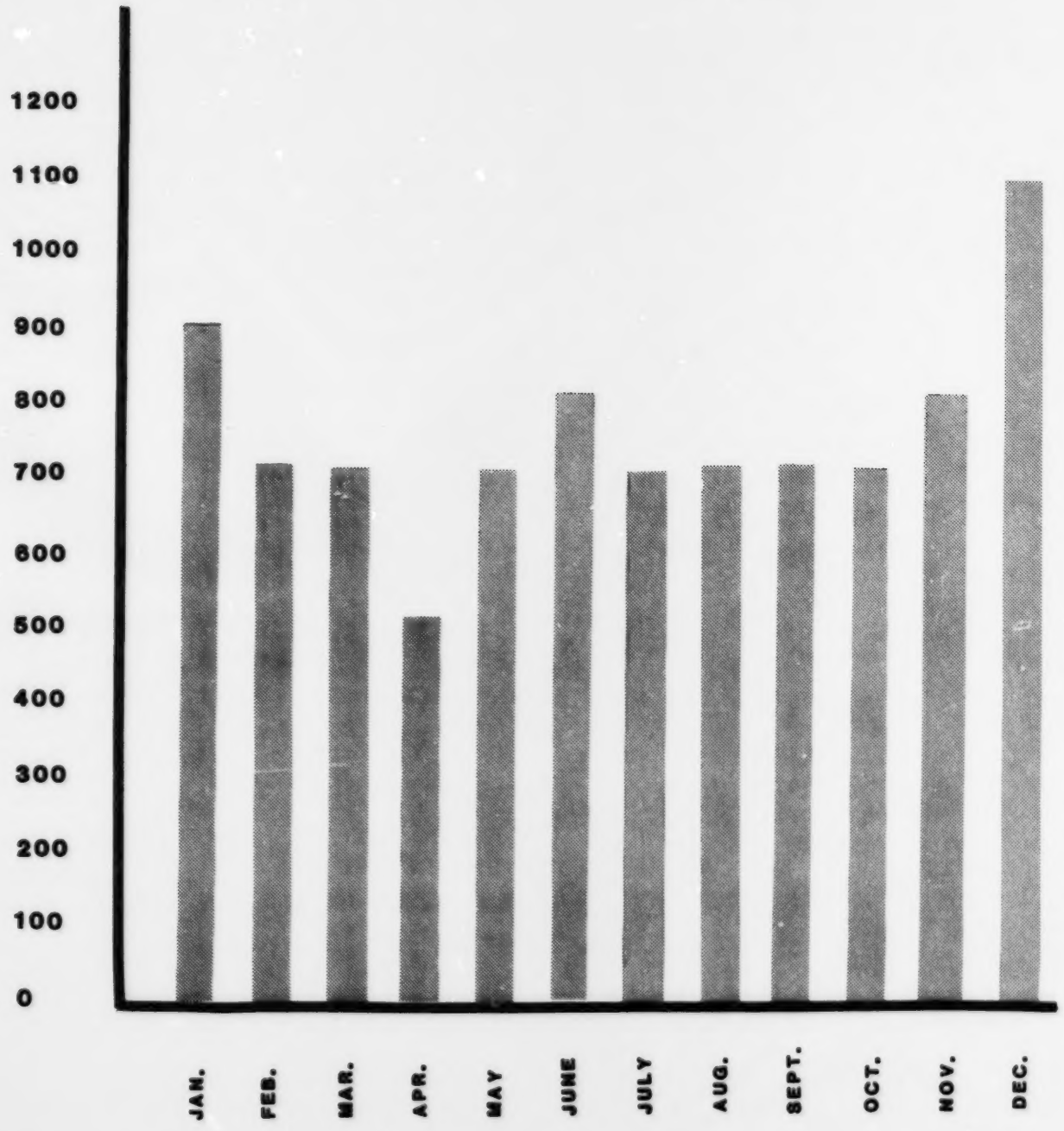
TRAFFIC ACCIDENTS
BY MONTH OF OCCURRENCE AND ACCIDENT TYPE
1989

ACCIDENT MONTH	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
JANUARY	8	943	3530	4481	11.4
FEBRUARY	3	740	2583	3326	8.5
MARCH	6	731	2397	3134	8.0
APRIL	6	556	1837	2399	6.1
MAY	11	714	1848	2573	6.6
JUNE	9	835	2228	3072	7.8
JULY	14	717	2005	2736	7.0
AUGUST	26	764	2078	2868	7.3
SEPTEMBER	16	772	2030	2818	7.2
OCTOBER	8	753	2370	3131	8.0
NOVEMBER	8	823	3016	3847	9.8
DECEMBER	10	1100	3692	4802	12.3
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

GRAPHIC REPRESENTATION
FATAL ACCIDENTS BY MONTH OF OCCURRENCE
1989



GRAPHIC REPRESENTATION
INJURY ACCIDENTS BY MONTH OF OCCURRENCE
1989



TRAFFIC ACCIDENTS
BY DAY OF OCCURRENCE AND ACCIDENT TYPE
1989

DAY OF WEEK	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
MONDAY	10	1206	3527	4743	12.1
TUESDAY	17	1237	3985	5239	13.4
WEDNESDAY	16	1373	4006	5395	13.8
THURSDAY	9	1402	4192	5603	14.3
FRIDAY	17	1693	5450	7160	18.3
SATURDAY	31	1430	4444	5905	15.0
SUNDAY	20	899	3092	4011	10.2
NOT STATED	5	208	918	1131	2.9
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

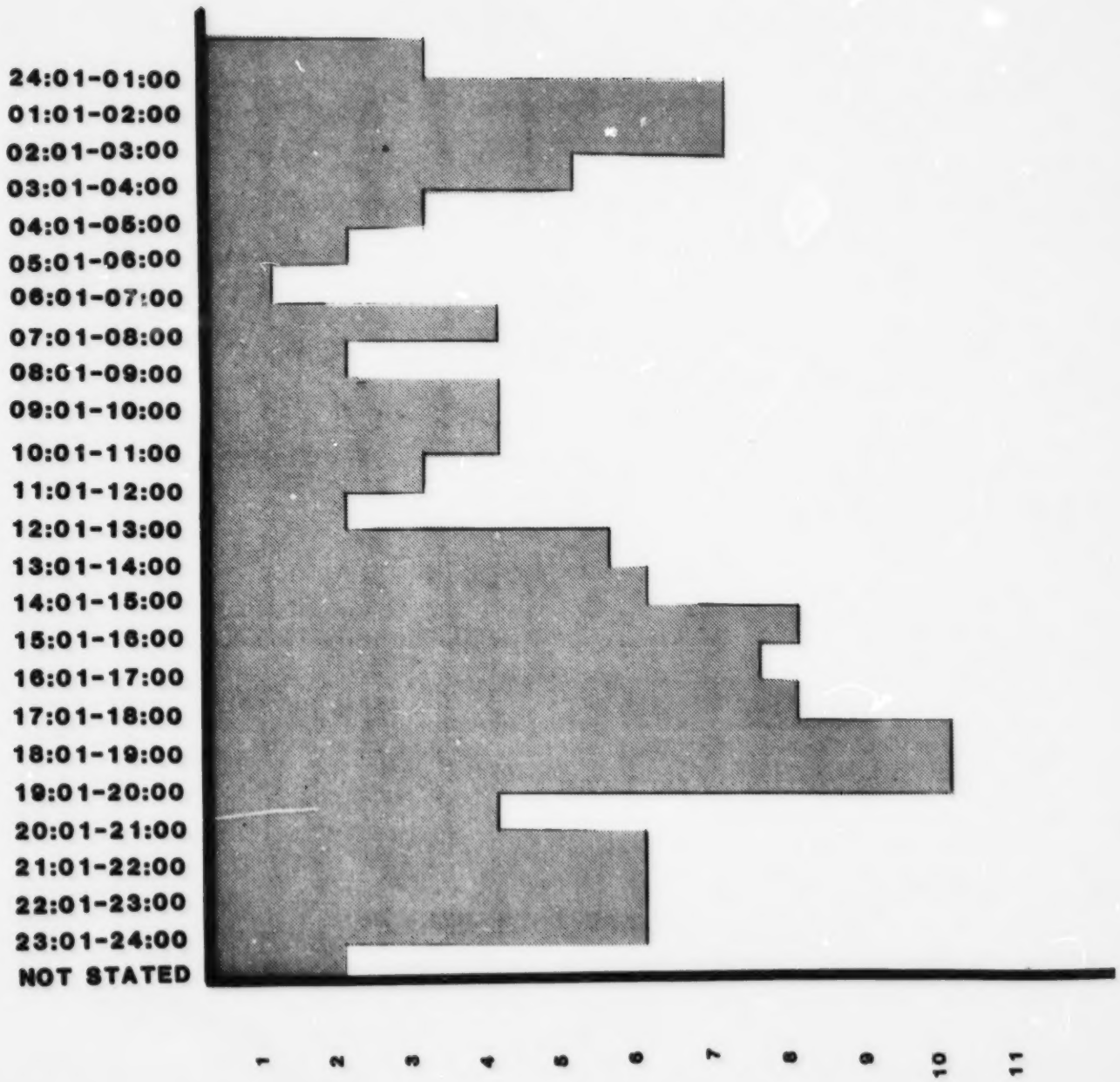
TRAFFIC ACCIDENTS
BY TIME OF OCCURRENCE AND ACCIDENT TYPE
1989

ACCIDENT HOUR	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
24:00- 1:00	3	199	605	807	2.1
1:01- 2:00	7	185	601	793	2.0
2:01- 3:00	7	201	622	830	2.1
3:01- 4:00	5	93	315	413	1.1
4:01- 5:00	3	77	189	269	0.7
5:01- 6:00	2	54	177	233	0.6
6:01- 7:00	1	115	370	486	1.2
7:01- 8:00	4	369	974	1347	3.4
8:01- 9:00	2	484	1316	1802	4.6
9:01-10:00	4	334	1048	1386	3.5
10:01-11:00	4	353	1275	1632	4.2
11:01-12:00	3	443	1569	2015	5.1
12:01-13:00	2	512	1621	2135	5.5
13:01-14:00	5	534	1711	2250	5.7
14:01-15:00	6	615	1858	2479	6.3
15:01-16:00	8	816	2216	3040	7.8
16:01-17:00	7	890	2487	3384	8.6
17:01-18:00	8	728	1930	2666	6.8
18:01-19:00	10	540	1589	2139	5.5
19:01-20:00	10	436	1403	1849	4.7
20:01-21:00	4	378	1242	1624	4.1
21:01-22:00	6	304	1140	1450	3.7
22:01-23:00	6	299	1189	1494	3.8
23:01-24:00	6	251	1016	1273	3.3
NOT STATED	2	238	1151	1391	3.6
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

GRAPHIC REPRESENTATION

FATAL ACCIDENTS BY TIME OF OCCURRENCE

1989



TRAFFIC ACCIDENTS
BY COLLISION AND ACCIDENT TYPE
1989

COLLISION TYPE	ACCIDENT TYPE										
	URBAN			RURAL			PROVINCIAL TOTAL				
	FATAL	INJURY	P. DAMAGE	FATAL	INJURY	P. DAMAGE	FATAL	INJURY	P. DAMAGE	ALL CATEGORIES	% EACH CATEGORY
PEDESTRIAN	13	587	9	6	36	0	19	623	9	651	1.7
MOTOR VEHICLE	12	5889	20653	40	559	1267	52	6448	21920	28420	72.5
TRAIN	0	11	15	0	5	8	0	16	23	39	0.1
MOTORCYCLE	6	149	115	2	52	20	8	201	135	344	0.9
BICYCLE	0	325	29	1	23	2	1	348	31	380	0.9
ANIMAL	0	5	99	0	84	1919	0	89	2018	2107	5.4
FIXED OBJECT	2	414	2348	4	134	529	6	548	2877	3431	8.8
OTHER OBJECT	0	25	160	2	34	130	2	59	290	351	0.9
OVERTURNED IN ROADWAY	1	8	22	4	75	111	5	83	133	221	0.6
RAN OFF ROADWAY	0	98	250	31	893	1623	31	991	1873	2895	7.3
OTHER NON-COLLISION	0	27	85	1	15	220	1	42	305	348	0.9
COLLISION WITH MOPED	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	**34**	**7538**	**23785**	**91**	**1910**	**5829**	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ACCIDENT SITE TYPE
1989

ACCIDENT SITE TYPE	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
INTERSECTION	36	4507	9513	14056	35.9
BETWEEN INTERSECTIONS	73	3557	11412	15042	38.4
INTERSECTION OF PRIVATE DRIVE	2	206	836	1044	2.7
LANE	1	184	859	1044	2.7
PARKING LOT	0	227	4412	4639	11.8
RAILROAD LEVEL CROSSING	0	36	72	108	0.3
BRIDGE/OVERPASS	1	186	394	581	1.5
TUNNEL/UNDERPASS	0	13	30	43	0.1
OFF-ROAD	5	117	358	480	1.2
NOT APPLICABLE	5	372	1544	1921	4.9
OTHER	0	4	8	12	...
UNKNOWN	2	39	176	217	0.5
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ROAD ALIGNMENT AND ACCIDENT TYPE
1989

ROAD ALIGNMENT	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
LEVEL AND STRAIGHT	83	8104	24916	33103	84.5
LEVEL AND CURVE	17	648	1584	2249	5.7
STRAIGHT WITH GRADE	8	242	810	1060	2.7
CURVE WITH GRADE	9	150	441	600	1.5
TOP OF HILL	2	60	213	275	0.7
BOTTOM OF HILL	3	51	216	270	0.7
NOT APPLICABLE	0	162	1267	1429	3.7
OTHER	0	0	2	2	...
UNKNOWN	3	31	165	199	0.5
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ROAD CATEGORY AND ACCIDENT TYPE
1989

ROAD CATEGORY	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
DIVIDED	28	3729	8145	11902	30.4
UNDIVIDED	91	5370	18444	23905	61.0
RAMP	1	32	99	132	0.3
NOT APPLICABLE	4	285	2738	3027	7.8
OTHER	0	1	9	10	...
UNKNOWN	1	31	179	211	0.5
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ROAD SURFACE AND ACCIDENT TYPE
1989

ROAD SURFACE	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
ASPHALT	79	4438	14174	18691	47.7
CONCRETE	12	2356	5696	8064	20.6
GRAVEL	26	782	3134	3942	10.1
EARTH/DIRT	1	41	254	296	0.7
PAVED	6	1685	5669	7360	18.8
NOT APPLICABLE	0	123	575	698	1.8
OTHER	0	0	0	0	0.0
UNKNOWN	1	23	112	136	0.3
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ROAD CONDITION AND ACCIDENT TYPE
1989

ROAD CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
GOOD	116	8854	27509	36479	93.1
DEFECTIVE	3	93	340	436	1.1
UNDER REPAIR	0	28	87	115	0.3
UNDER CONSTRUCTION	0	77	164	241	0.6
OBSTRUCTION NOT LIGHTED	0	10	33	43	0.1
HOLE/RUT/BUMP	5	206	594	805	2.1
PAVEMENT DROP OFF	0	7	16	23	0.1
NOT APPLICABLE	0	147	750	897	2.3
OTHER	0	1	1	2	...
UNKNOWN	1	25	120	146	0.3
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY ROAD SURFACE CONDITION AND ACCIDENT TYPE
1989

ROAD SURFACE CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
DRY	79	5333	14851	20263	51.7
WET	13	996	2497	3506	8.9
MUD	1	18	59	78	0.2
SNOW	9	772	3092	3873	9.9
ICE	15	1877	7632	9524	24.3
SLUSH	3	110	282	395	1.0
LOOSE SAND/GRAVEL/DIRT	4	169	342	515	1.3
FRESH OIL	0	2	2	4	...
NOT APPLICABLE	0	142	700	842	2.2
OTHER	0	0	0	0	0.0
UNKNOWN	1	29	157	187	0.5
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY LIGHT CONDITION AND ACCIDENT TYPE
1989

LIGHT CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
DAY	60	6475	18647	25182	64.3
DAWN	0	155	407	562	1.4
DUSK	8	378	1193	1579	4.0
DARK	46	1465	5759	7270	18.6
ARTIFICIAL LIGHTING	9	828	2800	3637	9.3
NOT APPLICABLE	0	116	665	781	2.0
OTHER	0	0	1	1	...
UNKNOWN	2	31	142	175	0.4
TOTAL	125	9448	29614	39187	100.0

TRAFFIC ACCIDENTS
BY WEATHER CONDITION AND ACCIDENT TYPE
1989

WEATHER CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
CLEAR	86	6672	21095	27853	71.1
CLOUDY	18	1466	4254	5738	14.7
RAINING	6	412	1018	1436	3.7
SNOWING	7	439	1605	2051	5.2
FOG OR MIST	2	106	256	364	0.9
SMOKE OR DUST	0	24	61	85	0.2
FREEZING RAIN/SLEET/HAIL	2	32	100	134	0.3
DRIFTING SNOW	3	94	251	348	0.9
STRONG WINDS	0	36	95	131	0.3
NOT APPLICABLE	0	136	712	848	2.2
OTHER	0	0	0	0	0.0
UNKNOWN	1	31	167	199	0.5
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY PLACE OF OCCURRENCE AND ACCIDENT TYPE
1989

PLACE OF OCCURRENCE	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
URBAN					
REGIONAL STREETS (WINNIPEG)	29	6596	17790	24415	77.8
URBAN 10,000 & UP (EXCLUSIVE OF WPG)	1	407	2338	2746	8.8
OTHER URBAN	4	535	3657	4196	13.4
TOTAL	**34**	**7538**	**23785**	**31357**	**100.0**
RURAL					
PRIMARY HIGHWAY	51	921	2569	3541	45.2
SECONDARY HIGHWAY	19	379	1064	1462	18.7
LOCAL/OTHER ROADS	21	610	2196	2827	36.1
TOTAL	**91**	**1910**	**5829**	**7830**	**100.0**
PROVINCIAL TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

TRAFFIC ACCIDENTS
BY EIGHT MOST POPULATED MANITOBA CITIES AND ACCIDENT TYPE
1989

ACCIDENT LOCATION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
WINNIPEG	29	6596	17790	24415	62.3
BRANDON	0	280	1345	1625	4.1
PORTAGE LA PRAIRIE	0	61	371	432	1.1
FLIN FLON	0	34	234	268	0.7
DAUPHIN	0	42	232	274	0.7
THOMPSON	1	66	622	689	1.8
THE PAS	0	29	218	247	0.6
SELKIRK	0	48	280	328	0.8
OTHER URBAN	4	382	2693	3079	7.9
ALL RURAL	91	1910	5829	7830	20.0
TOTAL	**125**	**9448**	**29614**	**39187**	**100.0**

SECTION 5

TRAFFIC

ACCIDENT VICTIMS

1989

SYNOPSIS

* Fatal accident victims increased by 9.9% from 141 in 1988 to 155 in 1989. This increase was the result of five multiple victim accidents; injury victims increased by 11.1%, from 11994 to 13320.

* The number of vehicle occupant fatal victims increased by 27.3% in 1989, to 126 from the previous year total of 99.

* Of 126 fatal vehicle occupant victims, 70 or 55.6% were known not to be wearing an available safety device. Seat belt usage was unknown for a further 16.6 percent.

* A total of 44 , or 34.9% of fatally injured vehicle occupants were ejected from their vehicles. Five victims (4.0%) were partially ejected.

* Four months - December and January, June and November (in descending order) accounted for 38.9% of all victims fatally injured in traffic accidents.

* 38.1% of fatal victims were killed between the hours of 3 p.m. - 8 p.m.; 38.1% of non-fatal traffic accident victims were injured between the hours of 2 p.m. - 7 p.m.

* Rural roadways accounted for 72.9% of fatal victims, but only 23.4% of injury victims.

* The age group 15 - 34 accounted for 53.6% of fatal victims, and 52.9% of total injury victims.

* Total motorcycle victims numbered 247, a decrease of 6.4% from the previous year.

* Of the total 155 fatal accident victims in 1989, 81.3% were vehicle occupants, 12.3% pedestrians, 5.8% motorcyclists and 0.6% bicyclists.

TRAFFIC ACCIDENT VICTIMS
BY MONTH OF OCCURRENCE AND INJURY TYPE
1989

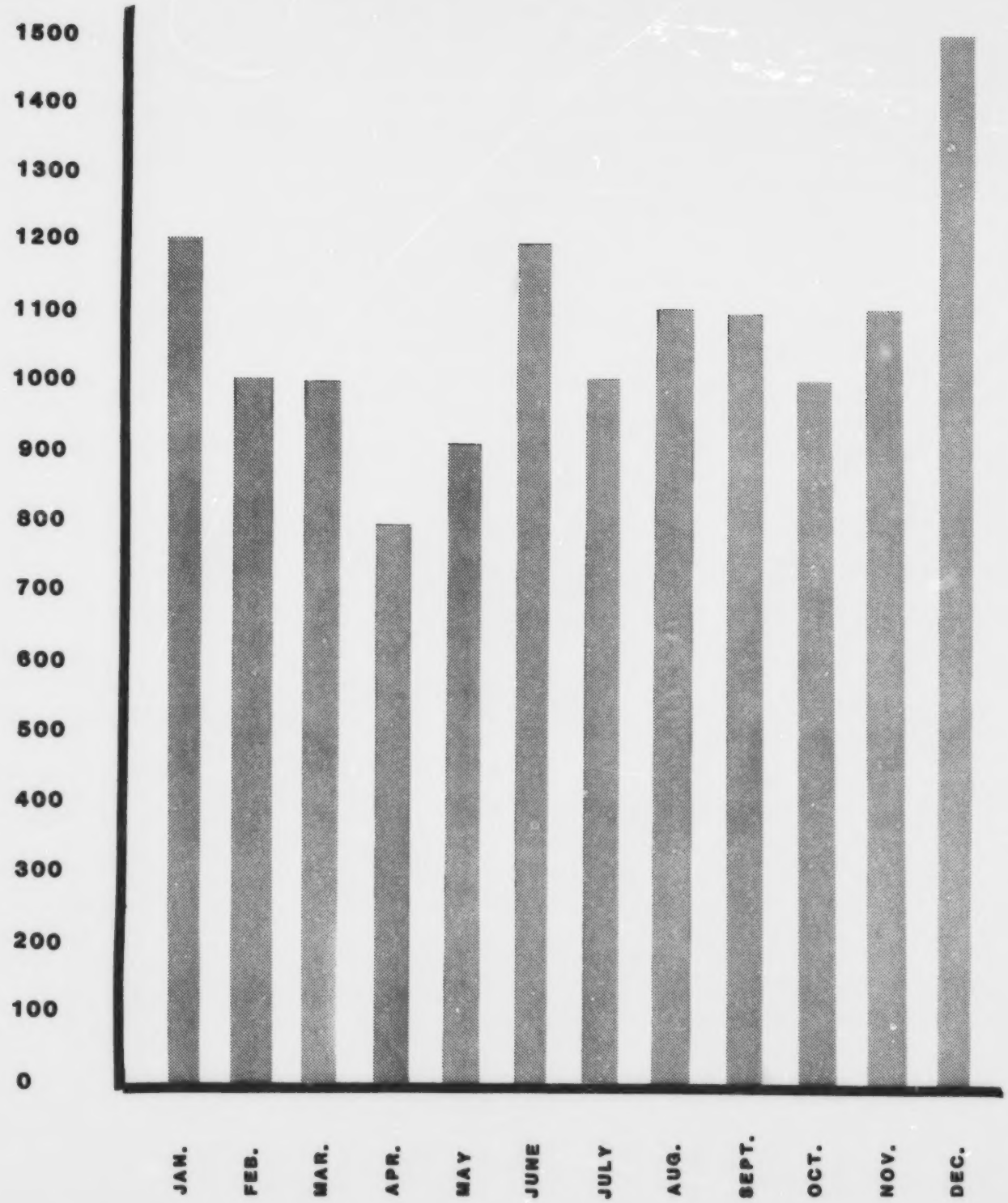
ACCIDENT MONTH	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
JANUARY	10	1277	1287	9.6
FEBRUARY	3	1036	1039	7.7
MARCH	8	1025	1033	7.7
APRIL	8	792	800	5.9
MAY	11	956	967	7.2
JUNE	9	1217	1226	9.1
JULY	17	1030	1047	7.8
AUGUST	34	1124	1158	8.6
SEPTEMBER	20	1090	1110	8.2
OCTOBER	9	1065	1074	8.0
NOVEMBER	9	1182	1191	8.8
DECEMBER	17	1526	1543	11.4
TOTAL	155	13320	13475	100.0

GRAPHIC REPRESENTATION

5.3

FATAL AND INJURED VICTIMS BY MONTH OF OCCURRENCE

1989



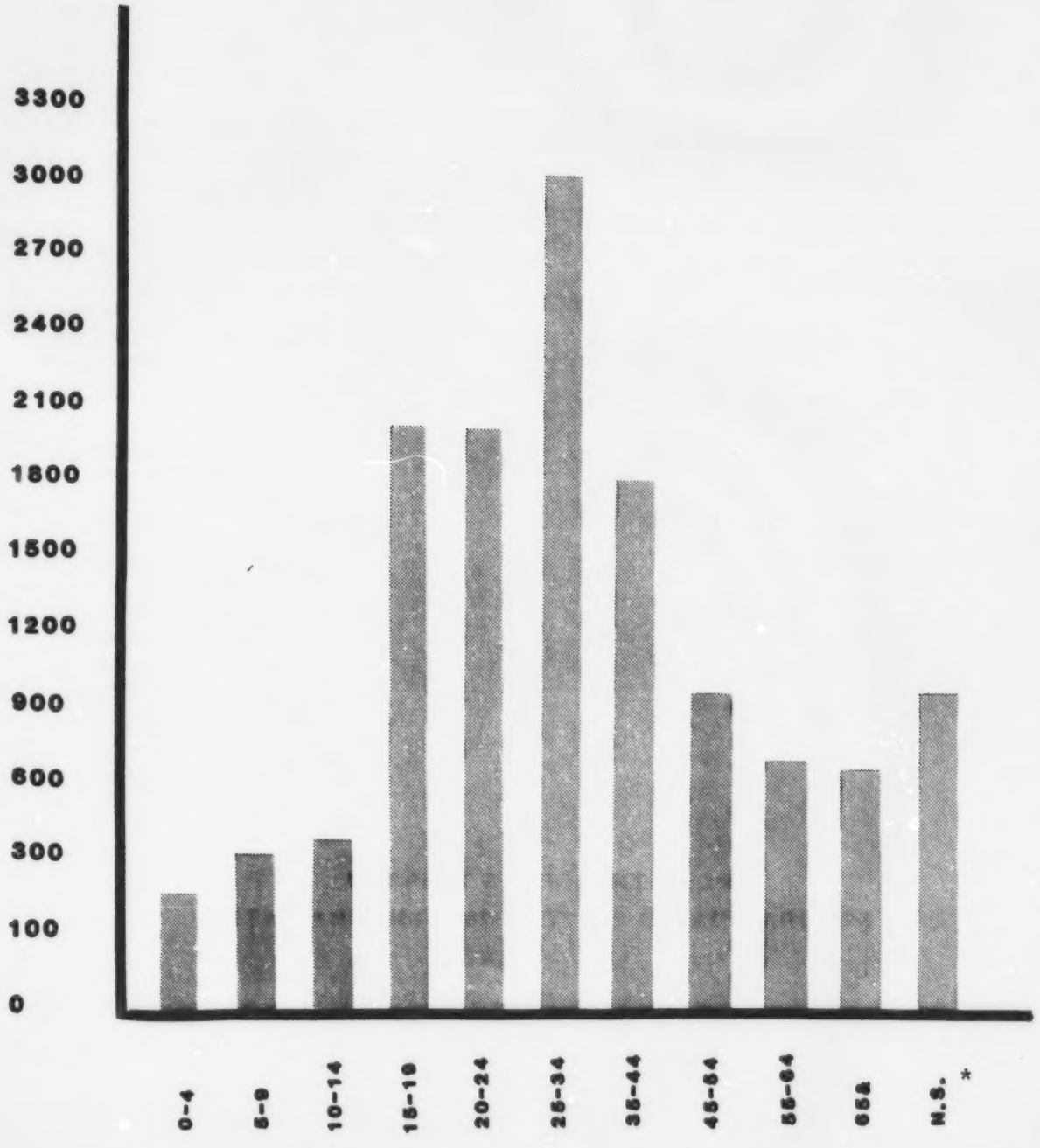
TRAFFIC ACCIDENT VICTIMS
BY HOUR OF OCCURRENCE AND ACCIDENT TYPE
1989

ACCIDENT HOUR	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
24:00- 1:00	4	280	284	2.1
1:01- 2:00	8	267	275	2.0
2:01- 3:00	9	276	285	2.1
3:01- 4:00	5	149	154	1.1
4:01- 5:00	4	122	126	0.9
5:01- 6:00	2	80	82	0.6
6:01- 7:00	1	150	151	1.1
7:01- 8:00	4	478	482	3.6
8:01- 9:00	2	604	606	4.5
9:01-10:00	5	456	461	3.4
10:01-11:00	4	496	500	3.7
11:01-12:00	3	611	614	4.5
12:01-13:00	3	712	715	5.3
13:01-14:00	9	744	753	5.6
14:01-15:00	8	853	861	6.4
15:01-16:00	12	1147	1159	8.6
16:01-17:00	10	1265	1275	9.4
17:01-18:00	14	1019	1033	7.7
18:01-19:00	12	795	807	6.0
19:01-20:00	11	651	662	4.9
20:01-21:00	4	545	549	4.1
21:01-22:00	7	471	478	3.6
22:01-23:00	6	445	451	3.5
23:01-24:00	6	355	361	2.7
NOT STATED	2	349	351	2.6
TOTAL	155	13320	13475	100.0

TRAFFIC ACCIDENT VICTIMS BY AGE GROUP AND INJURY TYPE 1989

AGE GROUP	INJURY TYPE							
	KILLED				INJURED			
	MALE	FEMALE	N.S.	TOTAL	MALE	FEMALE	N.S.	TOTAL
0 - 4	4	0	0	4	101	120	0	221
5 - 9	0	1	0	1	198	151	0	349
10 - 14	3	0	0	3	228	200	0	428
15 - 19	16	9	0	25	1050	980	0	2030
20 - 24	22	11	0	33	1113	905	0	2018
25 - 34	22	3	0	25	1581	1420	0	3001
35 - 44	10	6	0	16	853	952	0	1805
45 - 54	9	3	0	12	503	577	0	1080
55 - 64	6	3	0	9	345	388	0	733
65+	19	7	0	26	308	352	0	660
AGE NOT STATED	1	0	0	1	510	485	0	995
TOTAL	**112**	**43**	**0**	**155**	**6790**	**6530**	**0**	**13320**

GRAPHIC REPRESENTATION
FATAL AND INJURED VICTIMS BY AGE GROUPS
1989



* Not stated on accident report

TRAFFIC ACCIDENT VICTIMS
BY AGE GROUP AND COLLISION TYPE
1989

AGE GROUP	COLLISION TYPE																							
	PEDESTRIAN		MOTOR VEHICLE		TRAIN		MOTOR CYCLE		BICYCLE		ANIMAL		FIXED OBJECT		OTHER OBJECT		OVER TURNED		RAN OFF ROADWAY		OTHER NON-COLLISION		MOPED		TOTAL	
	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I	K	I
0 - 4	0	26	4	150	0	1	0	0	0	8	0	1	0	6	0	3	0	3	0	22	0	1	0	0	4	221
5 - 9	1	96	0	169	0	0	0	1	0	41	0	0	0	6	0	3	0	3	0	29	0	1	0	0	1	349
10 - 14	0	59	2	204	0	0	0	5	1	75	0	2	0	16	0	8	0	6	0	52	0	1	0	0	3	428
15 - 19	4	75	11	1202	0	3	4	49	0	52	0	20	0	172	0	16	2	38	4	396	0	7	0	0	25	2030
20 - 24	2	55	19	1385	0	6	3	70	0	43	0	16	3	134	0	5	0	21	5	276	1	7	0	0	33	2018
25 - 34	1	73	9	2293	0	4	1	62	0	34	0	27	1	141	1	18	2	29	10	312	0	8	0	0	25	3001
35 - 44	1	52	7	1433	0	2	0	29	0	10	0	20	0	70	1	9	0	19	7	153	0	8	0	0	16	1805
45 - 54	3	33	6	880	0	0	0	8	0	10	0	16	1	36	0	6	1	11	1	79	0	1	0	0	12	1080
55 - 64	1	30	5	574	0	3	1	4	0	7	0	7	1	32	0	3	0	8	1	62	0	3	0	0	9	733
65+	5	53	14	491	0	1	0	3	0	6	0	2	1	31	0	3	0	3	6	61	0	6	0	0	26	660
AGE NOT STATED	1	107	0	647	0	0	0	17	0	70	0	9	0	68	0	5	0	2	0	67	0	3	0	0	1	995
TOTAL	**19**	**659**	**77**	**9428**	**0**	**20**	**9**	**248**	**1**	**356**	**0**	**120**	**7**	**712**	**2**	**79**	**5**	**143**	**34**	**1509**	**1**	**46**	**0**	**0**	**155**	**13320**

* LEGEND K (Killed) I (Injured)

TRAFFIC ACCIDENT VICTIMS
BY PLACE OF OCCURRENCE AND INJURY TYPE
1989

PLACE OF OCCURRENCE	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
URBAN				
REGIONAL STREETS (WINNIPEG)	37	8903	8940	87.3
URBAN 10,000 & UP (EXCLUSIVE OF WPG)	1	546	547	5.3
OTHER URBAN	4	757	761	7.4
TOTAL	**42**	**10206**	**10248**	**100.0**
RURAL				
PRIMARY HIGHWAY	64	1567	1631	50.5
SECONDARY HIGHWAY	21	575	596	18.5
LOCAL/OTHER ROADS	28	972	1000	31.0
TOTAL	**113**	**3114**	**3227**	**100.0**
PROVINCIAL TOTAL	**155**	**13320**	**13475**	**100.0**

TRAFFIC ACCIDENT VICTIMS
BY EIGHT MOST POPULATED MANITOBA CENTRES
1989

ACCIDENT LOCATION	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
WINNIPEG	37	8903	8940	66.4
BRANDON	0	381	381	2.8
PORTAGE LA PRAIRIE	0	73	73	0.5
FLIN FLON	0	43	43	0.3
DAUPHIN	0	55	55	0.4
THOMPSON	1	92	93	0.7
THE PAS	0	35	35	0.3
SELKIRK	0	72	72	0.5
OTHER URBAN	4	552	556	4.1
ALL RURAL	113	3114	3227	24.0
TOTAL	155	13320	13475	100.0

TRAFFIC ACCIDENT VICTIMS
BY SAFETY EQUIPMENT AND INJURY SEVERITY
1989

SAFETY EQUIPMENT	INJURY SEVERITY					
	MINIMAL*	MINOR*	MAJOR*	FATAL*	NOT STATED**	TOTAL
LAP BELT ONLY INSTALLED AND IN USE	577	488	48	4	79	1196
LAP BELT ONLY INSTALLED AND NOT IN USE	97	196	67	6	9	375
SHOULDER BELT ONLY INSTALLED AND IN USE	131	153	20	0	9	313
SHOULDER BELT ONLY INSTALLED AND NOT IN USE	32	33	16	7	5	93
LAP AND SHOULDER BELT ASSEMBLY IN USE	3784	2863	303	27	724	7701
COMBINED BELT INSTALLED BUT NOT IN USE	224	411	142	57	36	870
ONLY LAP PART OF FULL ASSEMBLY IN USE	11	15	5	0	6	37
AIR BAG DEPLOYED	1	1	1	0	1	4
CHILD SAFETY SEAT USED	29	41	5	0	3	78
CHILD SAFETY SEAT INSTALLED BUT NOT USED	1	2	0	0	0	3
SAFETY HELMET WORN	39	103	39	5	4	190
SAFETY HELMET NOT WORN	7	15	16	1	1	40
REFLECTIVE CLOTHING OR ITEM ON PEDESTRIAN	3	4	1	0	0	8
NO SAFETY DEVICE AVAILABLE	61	153	35	4	25	278
NOT APPLICABLE	221	102	23	16	11	373
OTHER	0	0	0	0	0	0
UNKNOWN	366	731	219	28	572	1916
TOTAL	**5584**	**5311**	**940**	**155**	**1485**	**13475**

* MINIMAL INJURY - NO HOSPITAL TREATMENT
* MINOR INJURY - TREATED AND RELEASED
* MAJOR INJURY - ADMITTED TO HOSPITAL
* FATAL INJURY - DEATH WITHIN 30 DAYS OF ACCIDENT
** NOT STATED

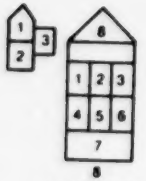
FATAL VEHICLE OCCUPANT VICTIMS*
BY SAFETY EQUIPMENT AND EJECTION
1989

SAFETY EQUIPMENT	VICTIMS	% OF TOTAL	NUMBER OF EJECTIONS
LAP BELT ONLY INSTALLED AND IN USE	4	3.2	
LAP BELT ONLY INSTALLED AND NOT IN USE	6	4.8	1E
SHOULDER BELT ONLY INSTALLED AND IN USE	0	0.0	
SHOULDER BELT ONLY INSTALLED AND NOT IN USE	7	5.6	2E
LAP AND SHOULDER BELT ASSEMBLY IN USE	27	21.4	2E
COMBINED ASSEMBLY INSTALLED BUT NOT IN USE	57	45.2	28E; 4PE
NO SAFETY DEVICE AVAILABLE	4	3.2	2E
UNKNOWN	21	16.6	9E; 1PE
TOTAL	126	100.0	44E; 5PE

* THE VEHICLE OCCUPANT CATEGORY EXCLUDES PEDESTRIANS, MOTORCYCLISTS AND BICYCLISTS.

TRAFFIC ACCIDENT VICTIMS
BY POSITION IN VEHICLE AND INJURY SEVERITY
1989

POSITION IN VEHICLE	MINIMAL	MINOR	MAJOR	FATAL	NOT STATED	TOTAL	% EACH CATEGORY
DRIVER OF VEHICLE	3833	3135	484	80	981	8513	63.2
PASSENGER (POSITION #2)	214	297	66	14	100	691	5.1
PASSENGER (POSITION #3)	1046	1058	184	25	259	2572	19.1
PASSENGER (POSITION #4)	140	161	36	6	19	362	2.7
PASSENGER (POSITION #5)	53	80	21	2	9	165	1.2
PASSENGER (POSITION #6)	152	210	40	5	26	433	3.2
PASSENGER (POSITION #7)	6	27	8	4	1	46	0.4
RIDER/HANGER ON	4	8	2	0	1	15	0.1
PEDESTRIAN	136	335	99	19	89	678	5.0
NOT STATED	0	0	0	0	0	0	0.0
TOTAL	5584	5311	940	155	1485	13475	100.0



POSITION ON/ IN VEHICLE
1 Driver
2-7 Passenger
8 Riding or Hanging on
9 Pedestrian

SECTION 6

PEDESTRIAN

ACCIDENT VICTIMS

1989

SYNOPSIS

* Fatal pedestrian accident victims decreased by nine in 1989, a 32.1% decrease from the 1988 total of 28.

* Urban roadways accounted for 68.4% of the 19 pedestrian accident victims killed, and 93.5% of the 659 pedestrians injured in 1989.

* 40.0% of pedestrian victims killed or injured in traffic accidents were crossing the roadway between intersections.

PEDESTRIAN ACCIDENT VICTIMS
BY PEDESTRIAN ACTION AND INJURY TYPE
1989

PEDESTRIAN ACTION	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
CROSSING WITH SIGNAL	0	77	77	11.4
CROSSING AGAINST SIGNAL	1	43	44	6.5
CROSSING NO SIGNAL, MARKED X-WALK	0	26	26	3.8
CROSSING NO SIGNAL OR CROSSWALK	0	75	75	11.1
CROSSING BETWEEN INTERSECTIONS	4	120	124	18.3
WALK ON/ALONG ROAD WITH TRAFFIC	3	30	33	4.9
WALK ON ROAD AGAINST TRAFFIC	2	7	9	1.3
ON SIDEWALK/SHOULDER/MEDIAN	1	18	19	2.8
WALKING ON BRIDGE	1	0	1	0.2
EMERGE FROM BEHIND PARKED VEHICLE	1	29	30	4.4
EMERGE FROM BEHIND MOVING VEHICLE	0	9	9	1.3
GETTING ON/OFF SCHOOL BUS	0	1	1	0.2
GETTING ON/OFF OTHER VEHICLE	0	4	4	0.6
PUSHING/WORKING ON VEHICLE	1	5	6	0.9
RIDING OR HITCHING ON VEHICLE	0	3	3	0.4
PLAYING/AT WORK ON ROADWAY	0	22	22	3.2
HITCH-HIKING ON/ALONG ROADWAY	1	4	5	0.7
NOT APPLICABLE	0	0	0	0.0
OTHER	0	0	0	0.0
UNKNOWN	4	186	190	28.0
TOTAL	**19**	**659**	**678**	**100.0**

PEDESTRIAN ACCIDENT VICTIMS
BY PLACE OF OCCURRENCE AND INJURY TYPE
1989

PLACE OF OCCURRENCE	INJURY TYPE			
	KILLED	INJURED	TOTAL	% EACH CATEGORY
URBAN	13	616	629	92.8
RURAL	6	43	49	7.2
TOTAL	19	659	678	100.0

PEDESTRIAN ACCIDENT VICTIMS BY ACCIDENT SITE TYPE AND INJURY TYPE 1989

ACCIDENT SITE TYPE	INJURY TYPE			% EACH CATEGORY
	KILLED	INJURED	TOTAL	
INTERSECTION	5	268	273	40.3
BETWEEN INTERSECTIONS	12	259	271	40.0
INTERSECTION OF PRIVATE DRIVE	0	14	14	2.1
LANE	0	13	13	1.9
PARKING LOT	0	67	67	9.9
RAILROAD LEVEL CROSSING	0	0	0	0.0
BRIDGE/OVERPASS	1	0	1	0.1
TUNNEL/UNDERPASS	0	0	0	0.0
OFF-ROAD	0	3	3	0.4
NOT APPLICABLE	1	31	32	4.7
OTHER	0	0	0	0.0
UNKNOWN	0	4	4	0.6
TOTAL	**19**	**659**	**678**	**100.0**

SECTION 7

VEHICLE INVOLVEMENT

1989

SYNOPSIS

* Vehicles involved in traffic accidents in 1989 numbered 67188, a 4.7% increase from the 1988 total of 64166.

* 74.8% of vehicles involved in traffic accidents in 1989 were passenger vehicles.

* The primary damage location on vehicles in accidents were vehicle front, at 23.9%, vehicle rear (including trunk) at 11.2% and extensive (including several areas) at 10.9 percent.

* Only 0.8% of total vehicles involved in accidents were carrying hazardous loads.

* 52.9% of total vehicles were moving straight ahead when accident involvement occurred. 9.2% were parked, 9.6% were stopped in traffic and 8.3% were making a left-hand turn.

* In fixed object accidents, 30.6% of total vehicles involved collided with a ditch/slope, 11.1% with curbing and 7.4% with a tree or bush.

* In non-collision event accidents, 57.1% of total vehicles involved ran off the roadway, 26.9% went into a skid or slide and 7.5% were fire related.

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY VEHICLE TYPE AND ACCIDENT TYPE 1989

VEHICLE TYPE	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
AUTOMOBILE	103	13240	36878	50221	74.8
MOTORCYCLE	8	229	159	396	0.6
BICYCLE	1	359	24	384	0.6
MOPED	0	2	7	9	...
SCHOOL BUS	0	14	65	79	0.1
TRANSIT BUS	0	76	164	240	0.4
INTER-CITY BUS	0	4	13	17	...
BUS (OTHER)	0	22	53	75	0.1
PICK-UP OR VAN UNDER 5,000 KG	62	2822	10283	13167	19.6
TRUCK OVER 5,000 KG	7	174	656	837	1.3
TRACTOR AND SEMI-TRAILER	13	154	504	671	1.0
MOTORHOME	0	23	116	139	0.2
TRUCK/CAMPER	0	10	17	27	...
TRUCK (OTHER)	1	134	444	579	0.9
FARM EQUIPMENT	1	12	40	53	0.1
CONSTRUCTION EQUIPMENT	1	31	118	150	0.2
SNOWMOBILE (ORVA)	1	6	8	15	...
SNOW VEHICLE (HTA)	0	0	3	3	...
TRAIN/OTHER RAIL VEHICLE	0	0	2	2	...
AMBULANCE	0	3	9	12	...
FIRE	0	7	14	21	...
POLICE/R.C.M.P.	0	20	53	73	0.1
MOBILITY	0	2	0	2	...
OFF-ROAD VEHICLE	0	1	2	3	...
ALL-TERRAIN VEHICLE	0	10	2	12	...
AMPHIBIOUS VEHICLE	0	1	0	1	...
DUNE OR SPORT BUGGY	0	0	0	0	0.0
4-WHEEL DRIVE MOTOR VEHICLE	0	0	0	0	0.0
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY VEHICLE YEAR AND ACCIDENT TYPE 1989

VEHICLE YEAR	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
1990	0	50	126	176	0.3
1989	13	769	2468	3250	4.8
1988	21	1442	4426	5889	8.8
1987	13	1395	4276	5684	8.5
1986	17	1601	5013	6631	9.9
1985	12	1287	4155	5454	8.1
1984	23	1330	3817	5170	7.7
1983	10	885	2478	3373	5.0
1982	10	961	2712	3683	5.5
1981 AND OLDER	75	6872	18612	25559	38.0
NOT STATED	4	764	1551	2319	3.4
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY TRAFFIC CONTROL AND ACCIDENT TYPE 1989

TRAFFIC CONTROL	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
TRAFFIC SIGNAL/CONTROL	11	4465	7769	12245	18.3
STOP	8	1064	2821	3893	5.8
RIGHT TURN ON RED	0	8	20	28	...
LEFT TURN ON RED	0	6	9	15	...
YIELD	0	409	621	1030	1.5
OFFICER/FLAGMAN	0	24	31	55	0.1
MERGE	0	26	66	92	0.1
FOUR-WAY STOP	0	48	118	166	0.3
TURN CONTROLS	0	9	14	23	...
FLASHING TURN SIGNAL	0	14	27	41	0.1
OVERHEAD SIGNS	0	3	8	11	...
RAILWAY GATES	0	10	22	32	0.1
RAILWAY AUTO CONTROLS	0	14	14	28	...
RAILWAY CROSSING	0	47	91	138	0.2
SCHOOL ZONE	0	12	16	28	...
WARNING SIGN	1	24	42	67	0.1
PEDESTRIAN CROSSWALK	0	147	165	312	0.5
PEDESTRIAN CORRIDOR	0	149	131	280	0.4
SCHOOL CROSSING	0	4	2	6	...
FLASHING SCHOOL SIGNALS	0	8	13	21	...
NOT APPLICABLE	172	10427	36304	46903	69.9
OTHER	0	0	1	1	...
UNKNOWN	6	438	1329	1773	2.6
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY PRE-COLLISION ACTION AND ACCIDENT TYPE 1989

PRE-COLLISION ACTION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
GOING STRAIGHT AHEAD	157	10403	24976	35536	52.9
TURNING LEFT	10	1461	4125	5596	8.3
TURNING RIGHT	1	470	1960	2431	3.6
MAKING U-TURN	1	36	195	232	0.4
CHANGING LANES TO LEFT	2	123	582	707	1.1
CHANGING LANES TO RIGHT	1	155	550	706	1.1
MERGING	0	119	237	356	0.5
REVERSING	1	152	2473	2626	3.9
OVERTAKING	3	101	267	371	0.6
STOPPED IN TRAFFIC	0	2624	3797	6421	9.6
START FROM PARKED POSITION/LEAVE ROAD	1	79	407	487	0.7
ENTER PARKED POSITION/ STOP ON ROAD	0	53	305	358	0.5
PARKED	2	309	5894	6205	9.2
SWERVING	13	156	504	673	1.0
NOT APPLICABLE	6	1100	3292	4398	6.5
OTHER	0	2	3	5	...
UNKNOWN	0	13	67	80	0.1
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY VEHICLE DAMAGE LOCATION AND ACCIDENT TYPE 1989

VEHICLE DAMAGE LOCATION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
FRONT	41	4819	11227	16087	23.9
ENGINE HOOD	2	41	94	137	0.2
WINDSHIELD	0	41	47	88	0.1
ROOF	2	52	147	201	0.3
REAR, INCLUDING TRUNK	0	2768	4755	7523	11.2
LEFT FRONT FENDER	3	866	4918	5787	8.6
LEFT DOOR(S)	4	372	1990	2366	3.5
LEFT REAR FENDER	3	347	2731	3081	4.6
ENTIRE LEFT SIDE	9	368	1258	1635	2.5
RIGHT FRONT FENDER	6	722	3871	4599	6.9
RIGHT DOOR(S)	2	277	1544	1823	2.7
RIGHT REAR FENDER	1	364	2477	2842	4.2
ENTIRE RIGHT SIDE	3	318	1112	1433	2.1
UNDERCARRIAGE	1	56	406	463	0.7
INTERIOR	0	8	25	33	0.1
EXTENSIVE (SEVERAL AREAS)	107	2694	4513	7314	10.9
NOT APPLICABLE	14	3207	8404	11625	17.3
OTHER	0	3	8	11	0.0
UNKNOWN	0	33	107	140	0.2
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY HAZARDOUS LOAD AND ACCIDENT TYPE 1989

HAZARDOUS LOAD	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
EXPLOSIVES	0	85	392	477	0.7
FLAMMABLE GASES	1	6	10	17	...
FLAMMABLE AND CONBUSTIBLE LIQUIDS	0	3	20	23	...
FLAMMABLE SOLID/ DANGEROUS WHEN WET	0	1	0	1	...
OXIDIZERS AND ORGANIC PEROXIDES	0	0	3	3	...
POISONOUS SUBSTANCES/ INFECTIOUS	0	1	1	2	...
RADIOACTIVES	0	0	0	0	0.0
CORROSIVES	0	1	5	6	...
MISCELLANEOUS DANGEROUS SUBSTANCES	0	2	2	4	...
GENERAL CARGO NON-HAZARDOUS	0	1	0	1	...
EMPTY	0	0	0	0	0.0
NOT APPLICABLE	197	17224	49079	66500	99.0
OTHER		0	0	0	0.0
UNKNOWN	0	32	122	154	0.3
TOTAL	**198**	**17356**	**49634**	**67188**	**100.00**

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS
SEQUENCE OF EVENTS BY ACCIDENT TYPE
1989

SEQUENCE OF EVENTS/ COLLISION WITH:	ACCIDENT TYPE				% EACH CATEGORY
	FATAL	INJURY	P. DAMAGE	TOTAL	
FIXED OBJECT	26	1012	3570	4608	6.9
MOVEABLE OBJECT	129	14838	43735	58702	87.4
NON-COLLISION EVENT	21	709	1485	2215	3.3
NOT APPLICABLE	22	636	116	774	1.1
OTHER	0	161	728	889	1.3
UNKNOWN	0	0	0	0	0.0
TOTAL	**198**	**17356**	**49634**	**67188**	**100.0**

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS INVOLVING FIXED OBJECTS BY ACCIDENT TYPE 1989

FIXED OBJECT	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
DITCH BOTTOM/SLOPE	17	466	927	1410	30.6
APPROACH	0	11	20	31	0.7
TRAFFIC BARRICADE	0	11	56	67	1.5
SIGN POST	1	25	252	278	6.0
TRAFFIC SIGNAL STANDARD	0	18	101	119	2.6
STREET LIGHT STANDARD	2	76	233	311	6.8
TELEPHONE/POWER POLE	2	61	255	318	6.9
GUARD RAIL	0	30	145	175	3.8
BRIDGE STRUCTURE	1	38	105	144	3.1
TREE/BUSH	1	69	271	341	7.4
PARKING METER	0	1	5	6	0.1
BUILDING/WALL	0	21	209	230	5.0
CURBING	1	74	438	513	11.1
FENCE	0	17	174	191	4.1
CULVERT	0	13	16	29	0.6
SNOW EMBANKMENT DRIFT	1	55	233	289	6.3
ROCK CUT	0	5	23	28	0.6
DELINEATOR POSTS	0	1	16	17	0.4
FIRE HYDRANTS	0	5	43	48	1.0
MEDIAN BARRIER	0	15	48	63	1.4
TOTAL	**26**	**1012**	**3570**	**4608**	**100.0**

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS INVOLVING MOVEABLE OBJECT BY ACCIDENT TYPE 1989

MOVEABLE OBJECT	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
VEHICLE	121	14244	41464	55829	95.1
TRAIN	0	13	21	34	0.1
BICYCLIST	1	322	26	349	0.6
MOTORCYCLE	5	110	68	183	0.3
MOPED	0	1	0	1	...
ANIMAL	0	92	1976	2068	3.5
PEDESTRIAN	0	0	0	0	0.0
FARM MACHINERY	1	9	38	48	0.1
CONSTRUCTION MACHINERY	0	30	123	153	0.3
SNOWMOBILE	1	6	11	18	...
OFF-ROAD VEHICLE	0	11	8	19	...
TOTAL	129	14838	43735	58702	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS INVOLVING NON-COLLISION EVENT BY ACCIDENT TYPE 1989

NON-COLLISION EVENT	ACCIDENT TYPE				% EACH CATEGORY
	FATAL	INJURY	P. DAMAGE	TOTAL	
RAN OFF ROAD	15	450	800	1265	57.1
OVERTURNED	4	70	76	150	6.8
FIRE/EXPLOSION	0	7	158	165	7.4
SKIDDING/SLIDING	2	179	415	596	26.9
JACK-KNIFING	0	3	32	35	1.6
SUBMERSION	0	0	4	4	0.2
TOTAL	21	709	1485	2215	100.0

SECTION 8

DRIVER INVOLVEMENT

1989

SYNOPSIS

* The highest relative involvement in traffic accidents occurred in the age group 16 - 19, at 186/1000 drivers, and 20 - 24, 160/1000 at drivers. The lowest relative involvement occurred in the age group 65 - 74, at 53/1000 drivers, and 75+, at 56/1000 drivers. The overall relative involvement average for all age groups in 1989 was 95/1000.

* In 1989, 60378 drivers were involved in traffic accidents, an increase of 6.9% from the 1988 total of 56473.

TRAFFIC ACCIDENT DRIVER INVOLVEMENT BY AGE AND SEX OF DRIVER AND ACCIDENT TYPE 1989

AGE/SEX		ACCIDENT TYPE							
		FATAL	% ALL DRIVERS	INJURY	% ALL DRIVERS	P. DAMAGE	% ALL DRIVERS	TOTAL	% ALL DRIVERS
UNDER 16	M	0		24		44		68	
	F	0		5		23		28	
	NS	0		1		1		2	
	T	0	0.0	30	0.2	68	0.2	98	0.2
16 - 19	M	21		1500		4212		5733	
	F	4		761		1810		2575	
	NS	0		1		3		4	
	T	25	13.0	2262	13.6	6025	13.8	8312	13.8
20 - 24	M	29		1929		4844		6802	
	F	8		910		2053		2971	
	NS	0		2		4		6	
	T	37	19.3	2841	17.1	6901	15.9	9779	16.2
25 - 34	M	41		3028		7748		10817	
	F	11		1620		3659		5290	
	NS	0		5		9		14	
	T	52	27.1	4653	28.0	11416	26.2	16121	26.7
35 - 44	M	17		1884		5162		7063	
	F	7		1129		2774		3910	
	NS	0		1		7		8	
	T	24	12.5	3014	18.1	7943	18.2	10981	18.2
45 - 54	M	13		1129		3186		4328	
	F	3		590		1397		1990	
	NS	0		2		1		3	
	T	16	8.3	1721	10.3	4584	10.5	6321	10.5
55 - 64	M	8		814		2355		3177	
	F	3		332		841		1176	
	NS	0		1		1		2	
	T	11	5.7	1147	6.9	3197	7.3	4355	7.2
65 - 74	M	13		466		1546		2025	
	F	5		187		574		766	
	NS	0		0		1		1	
	T	18	9.4	653	3.9	2121	4.9	2792	4.6
75+	M	6		199		779		984	
	F	0		62		191		253	
	NS	0		0		0		0	
	T	6	3.1	261	1.6	970	2.2	1237	2.0
AGE NOT STATED	M	0		3		23		26	
	F	0		0		3		3	
	NS	3		48		302		353	
	T	3	1.6	51	0.3	328	0.8	382	0.6
ALL AGES	M	148		10976		29899		41023	
	F	41		5596		13325		18962	
	NS	3		61		329		393	
	T	192	100.0	16633	100.0	43553	100.0	60378	100.0

TRAFFIC ACCIDENT DRIVER INVOLVEMENT
BY AGE AND SEX AND RELATIVE INVOLVEMENT OF MANITOBA DRIVERS
1989

AGE/SEX		TOTAL DRIVERS INVOLVED	% EACH GROUP	TOTAL ACTIVE DRIVERS	% EACH GROUP	RELATIVE INVOLVEMENT RATE/1000
UNDER 16	M	68		0		
	F	28		0		
	NS	2		0		
	T	98	0.2	0	0.0	
16 - 19	M	5733		23362		
	F	2575		21286		
	NS	4		0		
	T	8312	13.8	44648	7.0	186
20 - 24	M	6802		31154		
	F	2971		29922		
	NS	6		0		
	T	9779	16.2	61076	9.6	160
25 - 34	M	10817		80699		
	F	5290		76490		
	NS	14		0		
	T	16121	26.7	157189	24.8	103
35 - 44	M	7063		70810		
	F	3910		66031		
	NS	8		0		
	T	10981	18.2	136841	21.7	80
45 - 54	M	4328		47456		
	F	1990		40681		
	NS	3		0		
	T	6321	10.5	88137	13.9	72
55 - 64	M	3177		40311		
	F	1176		30982		
	NS	2		0		
	T	4355	7.2	71293	11.2	61
65 - 74	M	2025		30542		
	F	766		22302		
	NS	1		0		
	T	2792	4.6	52844	8.3	53
75+	M	984		14840		
	F	253		7330		
	NS	0		0		
	T	1237	2.0	22170	3.5	56
AGE NOT STATED	M	26		0		
	F	3		0		
	NS	353		0		
	T	382	0.6	0	0.0	
ALL AGES	M	41023				
	F	18962		339174		
	NS	393		295024		
	T	60378	100.0	634198	100.0	95

TRAFFIC ACCIDENT DRIVER INVOLVEMENT BY DRIVER EXPERIENCE AND ACCIDENT TYPE 1989

DRIVER EXPERIENCE	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
LESS THAN 3 MONTHS	1	130	400	531	0.9
3 TO 6 MONTHS	1	219	638	858	1.4
7 TO 11 MONTHS	0	170	436	606	1.0
1 TO 2 YEARS	18	1593	4050	5661	9.4
3 TO 5 YEARS	17	2080	5145	7242	12.0
6 TO 10 YEARS	22	2834	6858	9714	16.1
11+ YEARS	59	7756	21114	28929	47.9
NOT STATED	74	1851	4912	6837	11.3
TOTAL	**192**	**16633**	**43553**	**60378**	**100.0**

SECTION 9

MAJOR CONTRIBUTING FACTORS TO ACCIDENT CAUSATION

1989

Major contributing factor data represents the first factor identified by police officers as contributing to accident causation. In 1989, 26822 factors were identified as contributing to 39187 traffic accidents.

HUMAN ACTION

* Major contributing factors under human action, in descending order, were driving too fast for conditions, failure to yield right of way and following too closely.

HUMAN CONDITION

* Under driver condition, major contributing factors were ability impaired by alcohol, had been drinking and extreme fatigue/fell asleep.

VEHICULAR DEFECTS

* Major vehicular contributing factors were faulty brakes, faulty tires and fire.

ENVIRONMENTAL CONDITIONS

* Under environmental conditions, major contributing factors were slippery surfaces, (wild) animal action and limited or obstructed view.

In total, human action and environmental conditions contributed most significantly to accident causation.

TRAFFIC ACCIDENT DRIVER INVOLVEMENT BY HUMAN ACTION AND ACCIDENT TYPE 1989

HUMAN ACTION	ACCIDENT TYPE							
	FATAL	% EACH GROUP	INJURY	% EACH GROUP	P. DAMAGE	% EACH GROUP	TOTAL	% EACH GROUP
DRIVING TOO FAST FOR CONDITIONS	14	7.3	660	4.0	1620	3.7	2294	3.8
FOLLOWING TOO CLOSELY	0	0.0	683	4.1	1079	2.5	1762	2.9
FAILED TO YIELD RIGHT OF WAY	5	2.6	598	3.6	1338	3.1	1941	3.2
LOST CONTROL/DRIVE OFF ROADWAY	23	12.0	497	3.0	1044	2.4	1564	2.6
BACKING UNSAFELY	0	0.0	59	0.4	1303	3.0	1362	2.3
TURNING IMPROPERLY	1	0.5	238	1.4	805	1.9	1044	1.7
CARELESS DRIVING	5	2.6	339	2.0	716	1.6	1060	1.8
DISOBEYED TRAFFIC CONTROL DEVICES	9	4.7	387	2.3	509	1.2	905	1.5
DRIVER INEXPERIENCE	4	2.1	197	1.2	511	1.2	712	1.2
CHANGING LANES IMPROPERLY	2	1.0	81	0.5	436	1.0	519	0.9
LEAVE STOP SIGN BEFORE SAFE TO DO SO	1	0.5	200	1.2	390	0.9	591	1.0
PASSING IMPROPERLY	3	1.6	64	0.4	184	0.4	251	0.4
EXCEEDING SPEED LIMIT	9	4.7	56	0.3	67	0.1	132	0.4
PARKING IMPROPERLY	0	0.0	6	...	110	0.3	116	0.2
DRIVING WRONG WAY ON ROADWAY	5	2.6	17	0.1	44	0.1	66	0.1
FAILED TO SIGNAL	0	0.0	11	0.1	64	0.1	75	0.1
DRIVERLESS VEHICLE RAN OUT OF CONTROL	1	0.5	12	0.1	40	0.1	53	0.1
PASSING A VEHICLE AT PEDESTRIAN X-WALK	0	0.0	13	0.1	3	...	16	...
NOT STATED	110	57.3	12515	75.2	33290	76.4	45915	76.0
TOTAL	**192**	**100.0**	**16633**	**100.0**	**43553**	**100.0**	**60378**	**100.0**

TRAFFIC ACCIDENT DRIVER INVOLVEMENT BY HUMAN CONDITION AND ACCIDENT TYPE 1989

HUMAN CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
LOSS OF CONSCIOUSNESS	0	23	18	41	0.1
EXTREME FATIGUE/ FELL ASLEEP	5	84	96	185	0.3
DEFECTIVE EYESIGHT	0	10	11	21	0.1
DEFECTIVE HEARING	0	0	7	7	...
MEDICAL DISABILITY	0	2	2	4	...
PHYSICAL DISABILITY	1	6	10	17	...
MENTAL DISABILITY	0	1	2	3	...
MENTAL CONFUSION/ UNABLE TO REMEMBER	1	11	16	28	0.1
SUDDEN ILLNESS	0	5	5	10	...
ABILITY IMPAIRED BY ALCOHOL	19	252	298	569	0.9
ABILITY IMPAIRED BY DRUGS	0	6	10	16	...
HAD BEEN DRINKING	10	164	232	406	0.7
NOT STATED	156	16069	42846	59071	97.8
TOTAL	**192**	**16633**	**43553**	**60378**	**100.0**

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY VEHICULAR DEFECT AND ACCIDENT TYPE 1989

VEHICULAR DEFECT	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
NO APPARENT DEFECT	192	17153	48910	66255	98.6
BRAKES	2	64	150	216	0.3
STEERING	0	14	30	44	0.1
HEADLIGHTS	3	9	11	23	0.0
TAIL LIGHTS	0	5	11	16	...
OTHER LIGHTING	0	4	11	15	...
ENGINE CONTROLS/ POWER TRAIN	0	26	90	116	0.2
SUSPENSION OR WHEEL FAILURE	1	14	49	64	0.1
TIRES	0	50	142	192	0.3
TOW HITCH	0	1	30	31	0.1
EXHAUST SYSTEM	0	1	1	2	...
HOOD/TAILGATE	0	4	14	18	...
INSECURED LOAD/OVERLOADED	0	4	32	36	0.1
VEHICLE MODIFICATIONS	0	3	7	10	...
FIRE	0	4	146	150	0.2
TOTAL	198	17356	49634	67188	100.0

VEHICLE INVOLVEMENT IN TRAFFIC ACCIDENTS BY ENVIRONMENTAL CONDITION AND ACCIDENT TYPE 1989

ENVIRONMENTAL CONDITION	ACCIDENT TYPE				
	FATAL	INJURY	P. DAMAGE	TOTAL	% EACH CATEGORY
ANIMAL ACTION-WILD	1	131	1979	2111	3.1
ANIMAL ACTION-DOMESTIC	0	43	154	197	0.3
SURFACE SLIPPERY	21	1322	4251	5594	8.3
SNOW DRIFT	3	73	238	314	0.5
OBSTRUCTION/DEBRIS	0	40	135	175	0.3
VIEW OBSTRUCTED/LIMITED	6	299	609	914	1.4
GLARE	2	54	100	156	0.2
CONSTRUCTION ZONE	0	23	57	80	0.1
DEFECTIVE ROAD SURFACE	0	116	269	385	0.6
SHOULDERS DEFECTIVE	0	13	33	46	0.1
LANE MARKINGS INADEQUATE	1	3	5	9	...
TRAFFIC CONTROL DEVICE NOT WORKING	0	11	15	26	...
WIND	0	19	43	62	0.1
PEDESTRIAN CORRIDOR IN USE	0	25	25	50	0.1
NOT STATED	164	15184	41721	57069	84.9
TOTAL	198	17356	49634	67188	100.0